



# FIGURE 2A

#### CHIR 12.12 light chain:

leader:

MALPAQLLGLLMLWVSGSSG

variable:

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGSNR ASGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ DSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

## FIGURE 2B

#### CHIR-12.12 heavy chain:

leader:

**MEFGLSWVFLVAILRGVQC** 

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESNRY HADSVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGTLVTV SS

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQS SGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELL GGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP SREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTV DKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQS SGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELL GGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP SREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTV DKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

# FIGURE 3A

DNA sequence of light chain of CHIR-12.12:

# FIGURE 3B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

gcgtggtccagcctgggaggtccctgagactctcctgtgcagcctctggattcaccttcagtagctatggcatgcactgggtccggccgattcaccatctccagagacaattccaagatcacgctgtatctgcaaatgaacagcctcagaactgaggacacggctgtgtattactgtgcgagagatgggggtatagcagcacctgggcctgactactggggccagggaaccctggtcaccgtctcctcagcaagtacca agggcccatccg to teccet ggcgcccgctag caa gagcacctct gggggcaca gcggccct gggctgcct ggtcaaggactacttccccgaaccggtgacggtgtcgtggaactcaggcgccctgaccagcggcgtgcacaccttcccggctgtccaggtgcccctaacccaggccctgcacacaaaggggcaggtgctgggctcagacctgccaagagccatatccgggaggaccctgeccet gaceta agecea acceea a aggcea a actete cacte cete agete ggaca cette tete ce cagatte cagta actete agete gacac cette to the contract of the contract o ${\tt cca} a tette tet et e agage {\tt cca} a a tett et et e tette e$ cct cca get ca aggegga caggt gec ctag agt ag cct geat ccaggga cagge cccag gegggt get ga cacgt ccacctccate tette et cage accet gaac te et ggggggac eg te agtet te et et te ecce caa aa accea aggac accet cat gate te experience and the experience of the expercggacccctgaggtcacatgcgtggtggtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg tgg aggtg cata at gccaa gacaa agccgcg gg aggag cagtacaa cagcacgt accgt gt gg tcagcgt cct caccgt cct accgt consideration of the considgcaccaggactggctgaatggcaaggagtacaagtgcaaggtctccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaaggtgggacccgtggggtgcgagggccacatggacagaggccggctcggcccaccctctgccctgagagtgaccgctgtaccaacctctgtccctacagggcagccccgagaaccacaggtgtacaccctgccccatcccgggaggagatg agccggagaacaactacaagaccacgcctcccgtgctggactccgacggctccttcttcctctatagcaagctcaccgtggaca agag cagg tgg cag cagg ggaa cgt ctt ct cat gct ccgt gat gcat gagg ct ctg caca accact a cac gcag aagag cct comments against the comment of ttccctgtctccgggtaaatga3'

# FIGURE 4A

# CHIR-5.9 light chain:

leader:

MALLAQLLGLLMLWVPGSSG

variable:

AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFFRR LSGVPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ DSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

# FIGURE 4B

### CHIR-5.9 heavy chain:

leader:

MGSTAILALLLAVLQGVCA

variable:

EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSDTR YSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGRDYYYYYGMDVWGQG TTVTVSS

#### constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQS SGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELL GGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP SREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTV DKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQS SGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELL GGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP SREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTV DKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

# FIGURE 5A

Coding sequence for short isoform of human CD40:

- 1 atggttegte tgeetetgea gtgegteete tggggetget tgetgaeege tgteeateea
- 61 gaaccacca etgeatgeag agaaaaacag tacctaataa acagteagtg etgttetttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cettgeggtg aaagegaatt cetagacace tggaacagag agacacactg ceaceageac
- 241 aaatactgcg accccaacct agggettcgg gtccagcaga agggeacctc agaaacagac
- 301 accatetgea cetgtgaaga aggetggeac tgtacgagtg aggeetgtga gagetgtgte
- 361 etgeaceget eatgetegee eggetttggg gteaageaga ttgetaeagg ggtttetgat
- 421 accatetgeg agecetgeec agteggette ttetecaatg tgteatetge tttegaaaaa
- 481 tgtcaccett ggacaaggte eccaggateg getgagagee etggtggtga tecceateat
- 541 cttcgggatc ctgtttgcca tcctcttggt gctggtcttt atcaaaaagg tggccaagaa
- 601 gccaaccaat aa

# FIGURE 5B

Encoded short isoform of human CD40:

- 1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtrspgs aespggdphh
- 181 Irdpvchplg aglyqkggqe and

#### FIGURE 5C

# Coding sequence for long isoform of human CD40:

- 1 atggttegte tgeetetgea gtgegteete tggggetget tgetgaeege tgteeateea
- 61 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttctttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cettgeggtg aaagegaatt cetagacace tggaacagag agacacactg ceaccagcac
- 241 aaatactgcg accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
- 301 accatetgea cetgtgaaga aggetggeae tgtacgagtg aggeetgtga gagetgtgte
- 361 ctgcaccgct catgctcgcc cggctttggg gtcaagcaga ttgctacagg ggtttctgat
- 421 accatetgeg agecetgeee agteggette ttetecaatg tgteatetge tttegaaaaa
- 481 tgtcaccett ggacaagetg tgagaccaaa gacetggttg tgcaacaggc aggcacaaac
- 541 aagactgatg ttgtctgtgg tccccaggat cggctgagag ccctggtggt gatccccatc
- 601 atcttcggga tcctgtttgc catcctcttg gtgctggtct ttatcaaaaa ggtggccaag
- 661 aagccaacca ataaggcccc ccacccaag caggaacccc aggagatcaa ttttcccgac
- 721 gatetteetg geteeaacae tgetgeteea gtgeaggaga etttacatgg atgecaaceg
- 781 gtcacccagg aggatggcaa agagagtcgc atctcagtgc aggagagaca gtga

# FIGURE 5D

#### Encoded long isoform of human CD40:

- 1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtscetk dlvvqqagtn
- 181 ktdvvcgpqd rlralvvipi ifgilfaill vlvfikkvak kptnkaphpk qepqeinfpd
- 241 dlpgsntaap vqetlhgcqp vtqedgkesr isvqerq

# FIGURE 6

